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Low reflection processing agent for transparent base - consists of
polymer having fluorine-contg. aliphatic cyclic structure

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Number of Countries: 001 Number of Patents: 001

Patent Family:

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JP 2019801	A	19900123	JP 88168936	A	19880708		199009 B

Priority Applications (No Type Date): JP 88168936 A 19880708

Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
JP 2019801	A		7			

Abstract (Basic): JP 2019801 A

A low reflection processing agent for the surface treatment of a transparent base material consists of a polymer having fluorine-contg. aliphatic cyclic structure.

Examples of fluorine-contg. polymer having aliphatic ring structure are shown by formulae (I), (II) and (III). In formulae, R=F or CF₃, l=0-5, m=0-4, n=0-1, l+m+n=1-6, o, p and q=0-5, o+p+q=1-6, and R₁ and R₂=F or CF₃. The fluorine-contg. polymer having aliphatic ring structure can be obtd, by cyclic polymerisation of pref. perfluoromonomer. Monomer suitable for the polymer is that having two carbon-carbon multiple bonds of different polymerisation activities, 2-7C straight chain linkage gp. for connecting the two carbon-carbon multiple bonds and a fluorine content of more than 10wt.%. Examples of suitable monomer are shown below. CF₂=CFOCF₂CF=CF₂; CF₂=CF=CF₂CF₂CF=CF₂; CF₂=CFOCF₂CF=CF₂; CF₂=CFOCF₂CF₃CFCF=CF₂ or CF₂=CFOCF₂OCF₂CF=CF₂. By using the polymer as a low reflection processing agent, a film of low refractive index can be formed on the surface of a transparent moulding and thus the light reflectivity of the transparent moulding can be greatly decreased.

USE/ADVANTAGE - The low reflection processing agent is useful for treating the surface of a base material e.g. glass or transparent plastic, to lower the surface reflection of the base material and to improve the legibility and the effective utilisation of visible energy. The processing agent is applicable to car window, show window, optical lens, spectacle lens, sun glass, etc. made of glass or transparent plastic such as polyvinyl chloride, polymethyl methacrylate, polycarbonate, polystyrene, etc.

Title Terms: LOW; REFLECT; PROCESS; AGENT; TRANSPARENT; BASE; CONSIST; POLYMER; FLUORINE; CONTAIN; ALIPHATIC; CYCLIC; STRUCTURE

Derwent Class: A14; A32; A89; L01; P73; P81

International Patent Class (Additional): B32B-007/02; C03C-017/32; C08F-014/18; C08F-016/24; G02B-001/10

File Segment: CPI; EngPI

Manual Codes (CPI/A-N): A04-E10; A09-A02; A12-B01F; L01-G04B; L01-G04D

Plasdoc Codes (KS): 0012 0020 0209 0210 0226 1212 2073 2592 2595 2639 2695 2715 2726 3267 2765 2827 3300 3310 0759 0500 3011 0535 0304 1292

Polymer Fragment Codes (PF):

001 014 02& 027 061 062 063 064 134 347 43& 443 477 516 521 523 57& 575
576 613 615 619 622 645 649 672 684 688 726

002 014 02& 027 062 063 064 074 077 081 082 134 347 43& 443 477 516 521
523 57& 575 576 613 615 619 622 645 649 672 684 688 726
003 014 02& 027 055 056 062 063 064 134 347 43& 443 477 516 521 523 57&
575 576 613 615 619 622 645 649 672 684 688 726
004 014 02& 027 062 063 064 134 143 155 157 158 347 43& 443 477 516 521
523 57& 575 576 613 615 619 622 645 649 672 684 688 726